Figure E1

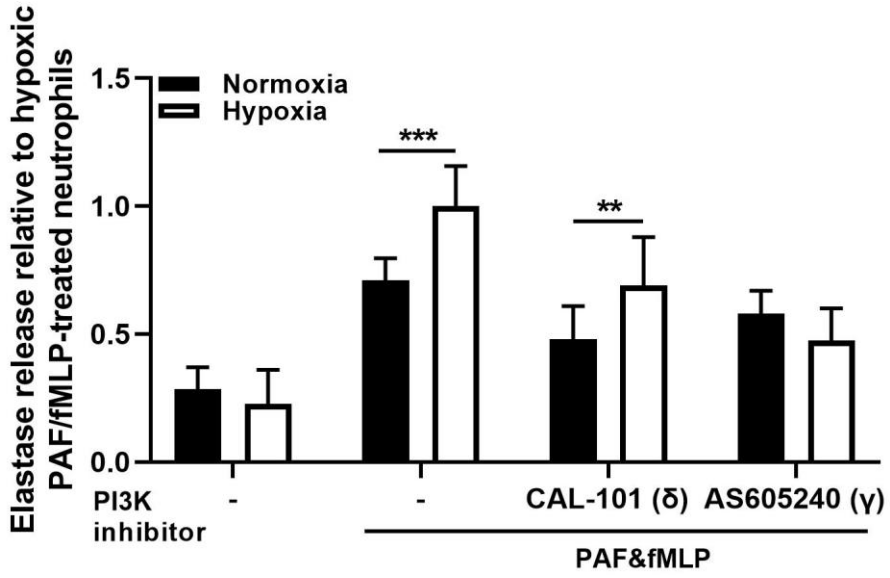

Figure E2

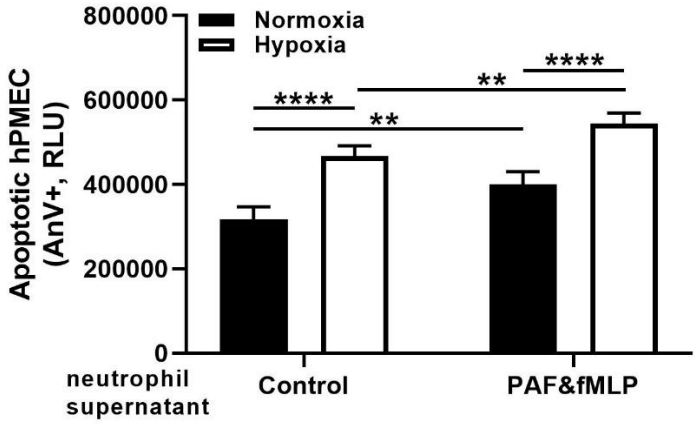

Figure E3

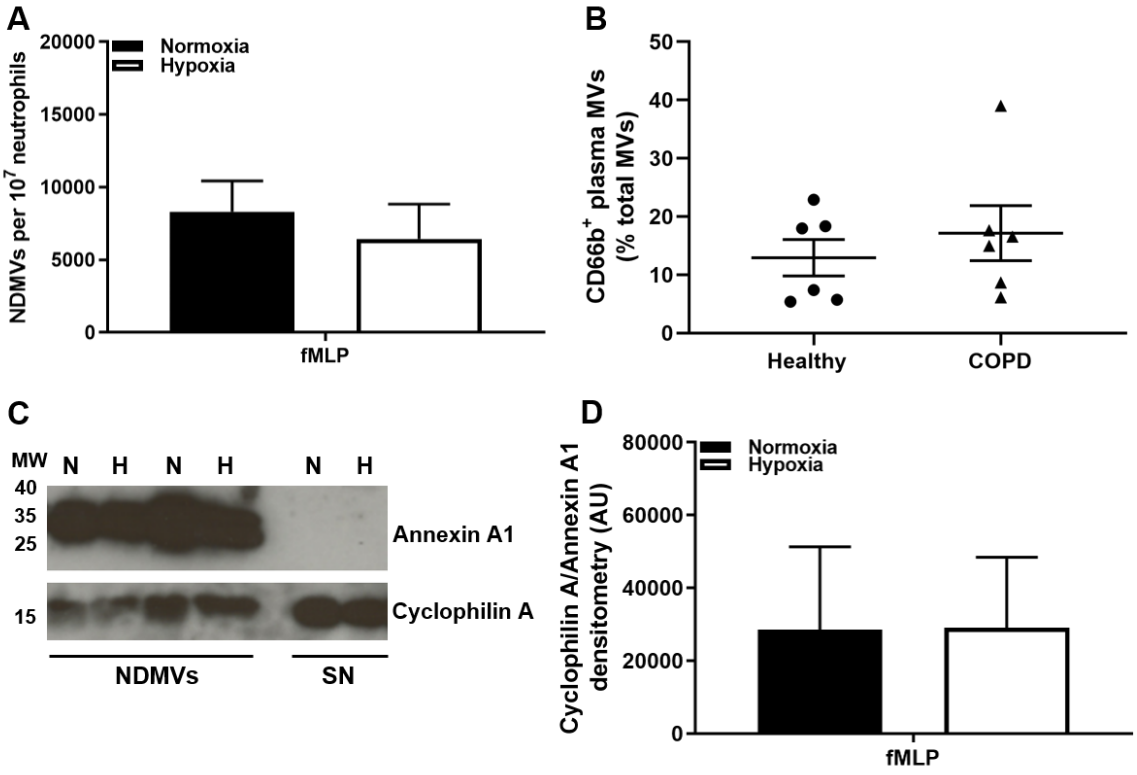
A
NDMVs per 10^7 neutrophils
20000
15000
10000
5000
0
Normoxia
Hypoxia
fMLP
B
CD66b+ plasma MVs (% total MVs)
50
40
30
20
10
0
Healthy
COPD
C
MW
N H N H N H
40
35
25
15
Annexin A1
Cyclophilin A
NDMVs
SN
D
Cyclophilin A/Annexin A1 densitometry (AU)
80000
60000
40000
20000
0
Normoxia
Hypoxia
fMLP

Figure E4

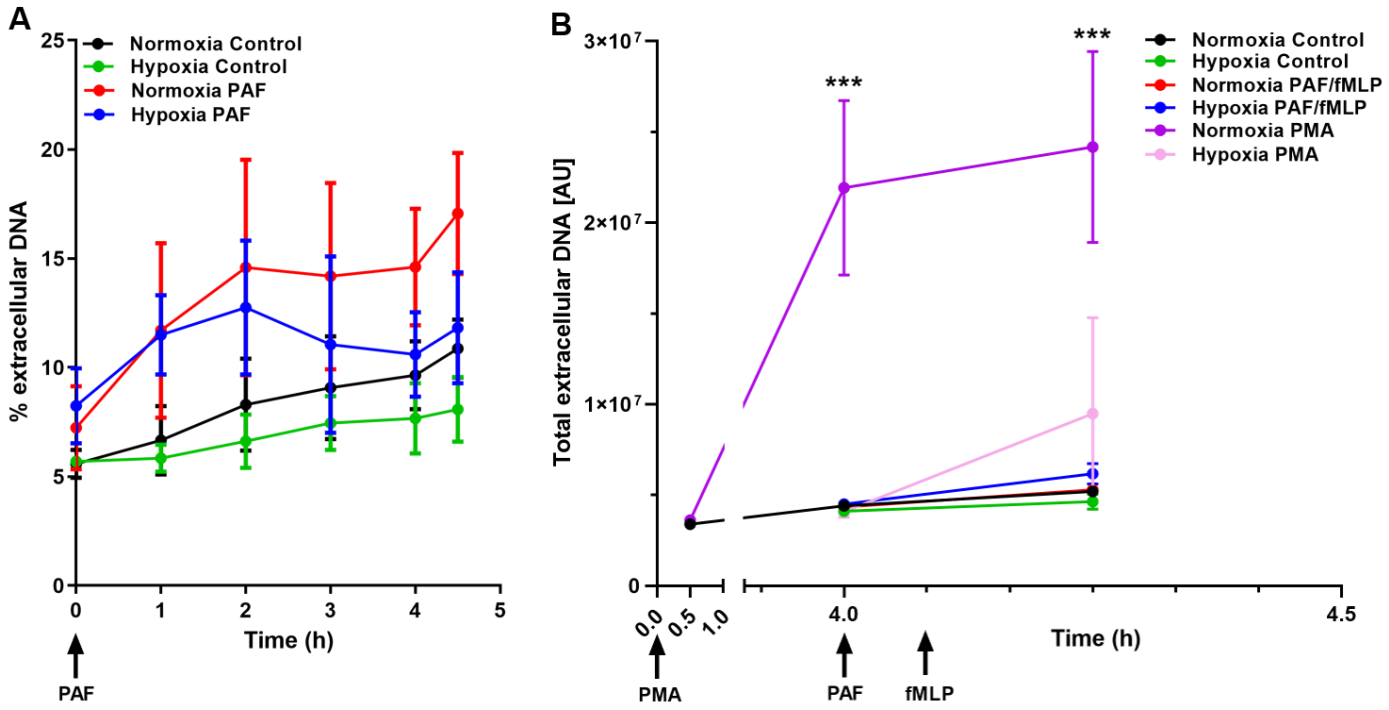
A
% extracellular DNA
Time (h)
PAF
Normoxia Control
Hypoxia Control
Normoxia PAF
Hypoxia PAF
B
Total extracellular DNA [AU]
***
***
Time (h)
PMA
PAF
fMLP
Normoxia Control
Hypoxia Control
Normoxia PAF/fMLP
Hypoxia PAF/fMLP
Normoxia PMA
Hypoxia PMA

Figure E5

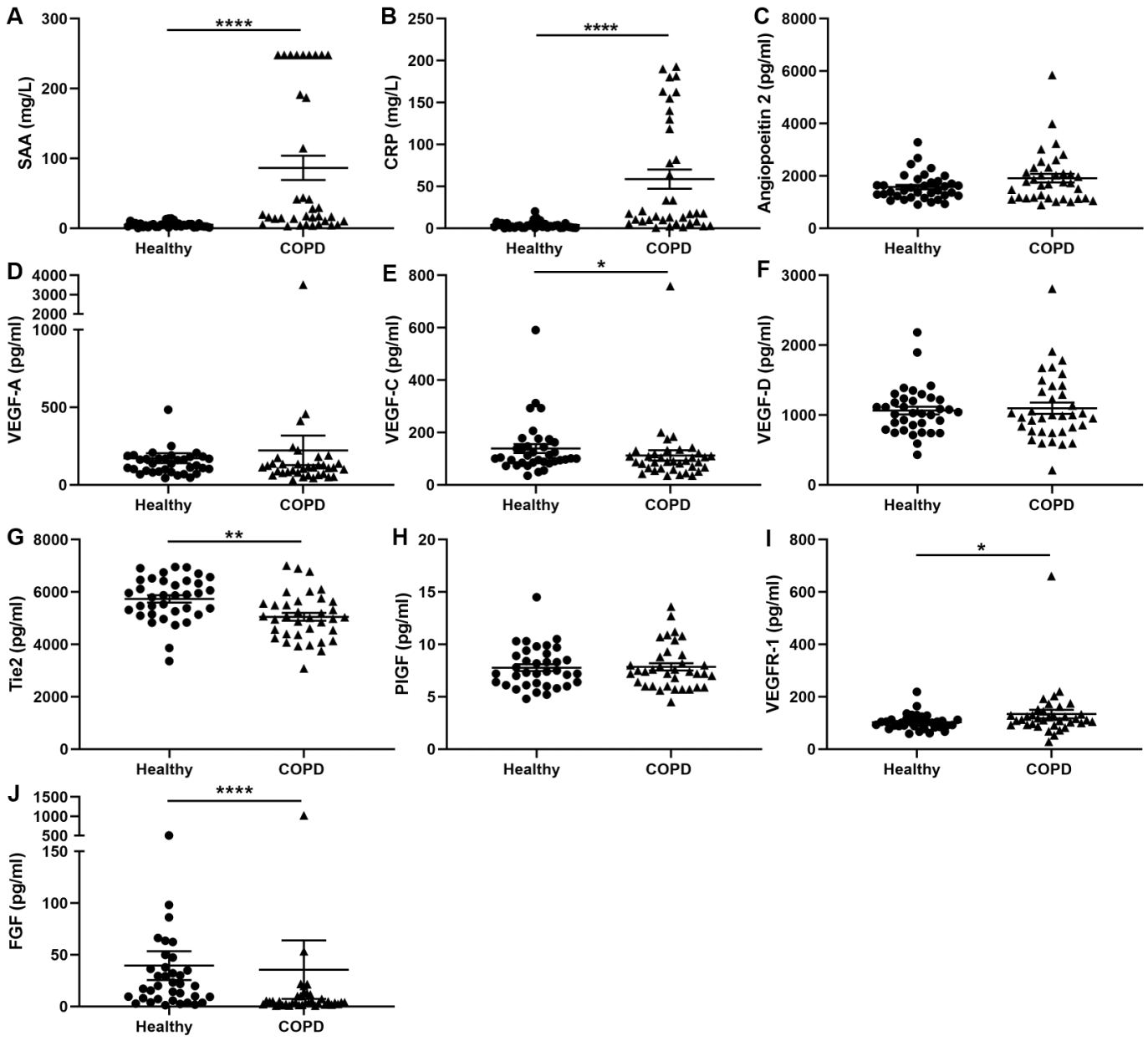
A
SAA (mg/L)
300
200
100
0
****
Healthy
COPD
B
CRP (mg/L)
250
200
150
100
50
0
****
Healthy
COPD
C
Angiopoeitin 2 (pg/ml)
8000
6000
4000
2000
0
Healthy
COPD
D
VEGF-A (pg/ml)
4000
3000
2000
1000
500
0
Healthy
COPD
E
VEGF-C (pg/ml)
800
600
400
200
0
*
Healthy
COPD
F
VEGF-D (pg/ml)
3000
2000
1000
0
Healthy
COPD
G
Tie2 (pg/ml)
8000
6000
4000
2000
0
**
Healthy
COPD
H
PIGF (pg/ml)
20
15
10
5
0
Healthy
COPD
I
VEGFR-1 (pg/ml)
800
600
400
200
0
*
Healthy
COPD
J
FGF (pg/ml)
1500
1000
500
150
100
50
0
****
Healthy
COPD

Table E1

Cohort 1	Healthy Donor N=14	COPD patient N=12
Age – mean year (SD)	66.07 (5.28)	70.74 (6.85)
Male sex – no. (%)	7 (50)	6 (50)
Smoking history – mean pack year (SD)	4.04 (11.33)	58.27 (32.95)
Current smoker – no. (%)	0 (0)	3 (25)
Current no. of cigarettes/day – mean (SD)	0 (0)	N=3 3 (2.51)
WCC – mean (SD) Neutrophil count – mean (SD) CRP – mean (SD)	Not tested	10.15 (4.46) 8.01 (4.29) 20.16 (22.0)
O_2 saturation on room air on admission – mean % (SD) O_2 saturation at time of venepuncture – mean % (SD)	Not recorded	86.3 (4.55) 91.75 (2.67)

Table E2

Cohort 2	COPD patient N=6
Age – mean year (SD)	75 (6.5)
Male sex – no. (%)	3 (50)
FEV1 % predicted (SD) (* spirometry within past year in the stable state)	53.17 (17.09)
FEV1/FVC* (SD)	49.61 (16.8)
Smoking history – mean pack year (SD)	45 (27.3)
Current smoker – no. (%)	1 (16.7)
Current no. of cigarettes/day	N = 1 10
O_2 saturation on room air at sampling – mean % (SD)	95.67 (2.42)
Timing of most recent exacerbation prior to sampling – mean months (SD)	3.4 (4.3)

Table E3

Cohort 3	Healthy Donor N=32	COPD patient N=32
Age – mean year (SD)	64.63 (8.80)	66.7 (7.03)
Male sex – no. (%)	20 (62.50)	21 (65.60)
FEV1 % predicted (SD) (* spirometry within one year of admission in the stable state)	109.99 (12.19)	70.80 (20.39)*
FEV1/FVC* (SD)	79.67 (5.37)	59.49 (12.64)*
Smoking history – mean pack year (SD)	12.13 (6.36)	28.74 (17.28)
Current smoker – no. (%)	10 (31.25)	13 (40.63)
Current no. of cigarettes/day – mean (SD)	N = 10 6.4 (1.96)	N = 13 11.61 (3.52)
O_2 saturation on room air on admission – mean % (SD)	95.53 (2.42)	89.23 (4.65)

Table E4

Cohort 1 comorbidities	Healthy Donor (total N=14) number of donors (%)	COPD patient (total (N=7) number of donors (%)
Type 2 diabetes	1 (7)	4 (57)
Hypertension	5 (36)	3 (43)
Ischaemic heart disease	1 (7)	2 (29)
Previous venous thromboembolism	0 (0)	2 (29)
Arrythmia	0 (0)	2 (29)
Obstructive sleep apnoea	0 (0)	2 (29)
Osteoporosis	0 (0)	2 (29)
Idiopathic angioedema	0 (0)	1 (14)
Obesity	0 (0)	1 (14)
Hypothyroidism	1 (7)	1 (14)
Alcohol excess	0 (0)	1 (14)
Chronic kidney disease	0 (0)	1 (14)
Motor neurone disease	0 (0)	1 (14)
Hypercholesterolaemia	4 (29)	0 (0)
Gastro-oesophageal reflux disease	3 (21)	0 (0)
Benign prostatic hyperplasia	2 (14)	0 (0)
Hyperthyroidism	1 (7)	0 (0)
Gout	1 (7)	0 (0)
Migraine	1 (7)	0 (0)